DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

WELDING INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter **Report No:** WIR-026025 Address: 333 Burma Road **Date Inspected:** 31-Jul-2011

City: Oakland, CA 94607

OSM Arrival Time: 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1900 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name: N/A **CWI Present:** Yes No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A Yes N/A **Electrode to specification:** No Weld Procedures Followed: Yes No N/A N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A Yes N/A **Approved Drawings:** Yes No **Approved WPS:** No Yes No N/A **Delayed / Cancelled:**

34-0006 **Bridge No: Component: OBG** Trial Assembly

Summary of Items Observed:

On this date Caltrans OSM Quality Assurance (QA) Inspector Mr. S. Manjunath Math was present during the time noted above for observations relative to the work being performed.

This QA Inspector randomly observed the following work in progress:

Orthotropic Box Girder (OBG) at Trial Assembly Areas

Segment 14AW (Triangular Plate)

This QA Inspector witnessed final bolt tension verification on bolts connecting triangular plate connecting the stiffeners of Floor Beam and full height Longitudinal Diaphragm at elevations 1800 mm and at 3250mm from Bottom Panel at work point W4 (Cross Beam side) and W3 (Counter Weight side) at the following panel points. Inspected the bolt tensioning on a random basis and found the tension to be in general compliance. Inspection was performed against the Notification No. 00722 dated July 31, 2011.

Triangular plates are installed at the following locations.

PP 125 (East and West side)

PP 125.5 (East and West side)

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PP 126 (East and West side) PP 126.5 (East and West side) PP 127 (East and West side) PP 127.3 (East and West side) The bolt sizes used were M22 x 90 RC Lot # DHGM220141 and the final torque value established was 500 N-m. The bolt sizes used were M22 x 110 RC Lot # DHGM220067 and the final torque value established was 500 N-m. The bolt sizes used were M22 x 75 RC Lot # DHGM220014 and the final torque value established was 473 N-m. The bolt sizes used were M22 x 80 RC Lot # DHGM220140 and the final torque value established was 380 N-m. The bolt sizes used were M22 x 85 RC Lot # DHGM220121 and the final torque value established was 393 N-m. The Manual Torque wrench used was Serial No. XO2-666. Please refer the pictures attached for more comprehensive details. Segment 14BW (Triangular Plate) This QA Inspector witnessed final bolt tension verification on bolts connecting triangular plate connecting the stiffeners of Floor Beam and full height Longitudinal Diaphragm at elevations 1800 mm and at 3250mm from Bottom Panel at work point W4 (Cross Beam side) and W3 (Counter Weight side) at the following panel points. Inspected the bolt tensioning on a random basis and found the tension to be in general compliance. Inspection was performed against the Notification No. 00722 dated July 31, 2011.

Triangular plates are installed at the following locations.

PP 127.5 (East and West side)

PP 128 (East and West side)

PP 128.3 (East and West side)

PP 128.7 (East and West side)

The bolt sizes used were M22 x 90 RC Lot # DHGM220141 and the final torque value established was 500 N-m.

The bolt sizes used were M22 x 110 RC Lot # DHGM220067 and the final torque value established was 500 N-m.

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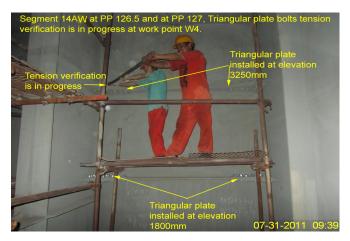
The bolt sizes used were M22 x 75 RC Lot # DHGM220014 and the final torque value established was 473 N-m.

The bolt sizes used were M22 x 80 RC Lot # DHGM220140 and the final torque value established was 380 N-m.

The bolt sizes used were M22 x 85 RC Lot # DHGM220121 and the final torque value established was 393 N-m.

The Manual Torque wrench used was Serial No. XO2-666.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.





Summary of Conversations:

No relevant conversations were reported on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang 15000422372, who represents the Office of Structural Materials for your project.

Inspected By:	Math, Manjunath	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer